

[FIG.1]

CELL A

CELL B

5 [FIG.2]

FREQUENCY

CELL A

CELL B

TIME

10 COLLISION OF HOPPING PATTERNS

[FIG.3]

QUALITY

QUALITY DETERIORATION DUE TO COLLISION

15 SYMBOL

[FIG.4]

100 OFDM RECEPTION APPARATUS

101 RECEPTION RF SECTION

20 104 PILOT RECEPTION POWER MEASURING SECTION

105 DATA SECTION RECEPTION POWER MEASURING SECTION

PILOT/DATA POWER RATIO INFORMATION

106 DATA SECTION RECEPTION POWER PREDICTION SECTION

107 POWER COMPARISON SECTION

25 COLLISION POSITION INFORMATION

103 ERROR CORRECTING/DECODING SECTION

108 COLLISION POSITION DETECTION SECTION

DECODED DATA

## HOPPING PATTERN INFORMATION

[FIG.5]

POWER

- 5 POWER INCREASE DUE TO COLLISION  
SYMBOL

[FIG.6]

POWER

- 10 SYMBOL  
POWER DECREASE DUE TO COLLISION

[FIG.7]

OTHER CELL SIGNAL

- 15 OWN CELL SIGNAL  
RECEIVED SIGNAL  
ACTUAL RECEPTION POWER  
RECEPTION POWER PREDICTED FROM PILOT

20 [FIG.8]

OWN CELL SIGNAL

OTHER CELL SIGNAL

RECEIVED SIGNAL

ACTUAL RECEPTION POWER

- 25 RECEPTION POWER PREDICTED FROM PILOT

[FIG.9]

200 OFDM RECEPTION APPARATUS

101 RECEPTION RF SECTION  
 104 PILOT RECEPTION POWER MEASURING SECTION  
 105 DATA SECTION RECEPTION POWER MEASURING SECTION  
 PILOT/DATA POWER RATIO INFORMATION  
 5 106 DATA SECTION RECEPTION POWER PREDICTION SECTION  
 103 ERROR CORRECTING/DECODING SECTION  
 COLLISION POSITION INFORMATION  
 107 POWER COMPARISON SECTION  
 201 ERROR RATE CALCULATION SECTION  
 10 202 THRESHOLD CONTROL SECTION  
 THRESHOLD  
 108 COLLISION POSITION DETECTION SECTION  
 DECODED DATA  
 HOPPING PATTERN INFORMATION  
 15  
 [FIG.10]  
 300 OFDM RECEPTION APPARATUS  
 101 RECEPTION RF SECTION  
 104 PILOT RECEPTION POWER MEASURING SECTION  
 20 105 DATA SECTION RECEPTION POWER MEASURING SECTION  
 PILOT/DATA POWER RATIO INFORMATION  
 106 DATA SECTION RECEPTION POWER PREDICTION SECTION  
 301 RECEPTION AVERAGE SIR DETCTION SECTION  
 107 POWER COMPARISON SECTION  
 25 302 TABLE SECTION  
 103 ERROR CORRECTING/DECODING SECTION  
 COLLISION POSITION INFORMATION  
 THRESHOLD

108 COLLISION POSITION DETECTION SECTION  
DECODED DATA  
HOPPING PATTERN INFORMATION

5 [FIG.11]  
PERFORMANCE (ERROR RATE)  
BAD  
GOOD  
SMALL  
10 LARGE  
THRESHOLD

[FIG.12]  
400 OFDM RECEPTION APPARATUS  
15 101 RECEPTION RF SECTION  
104 PILOT RECEPTION POWER MEASURING SECTION  
105 DATA SECTION RECEPTION POWER MEASURING SECTION  
401 RECEPTION AVERAGE SIR DETECTION SECTION  
PILOT/DATA POWER RATIO INFORMATION  
20 106 DATA SECTION RECEPTION POWER PREDICTION SECTION  
402 TABLE CREATION SECTION  
103 ERROR CORRECTING/DECODING SECTION  
COLLISION POSITION INFORMATION  
107 POWER COMPARISON SECTION  
25 403 ERROR RATE CALCULATION SECTION  
404 THRESHOLD CONTROL SECTION  
THRESHOLD  
108 COLLISION POSITION DETECTION SECTION

DECODED DATA

HOPPING PATTERN INFORMATION